Mercury

Work Group Co-Chairs:
Alexis Cain, U.S. EPA
Robert Krauel, Environment Canada





Canada's Mercury Reduction Challenge and Progress

Challenge:

"Achieve by 2000, a 90% reduction in the release of mercury, or where warranted the use of mercury, in the Great Lakes Basin"

Baseline: 1988

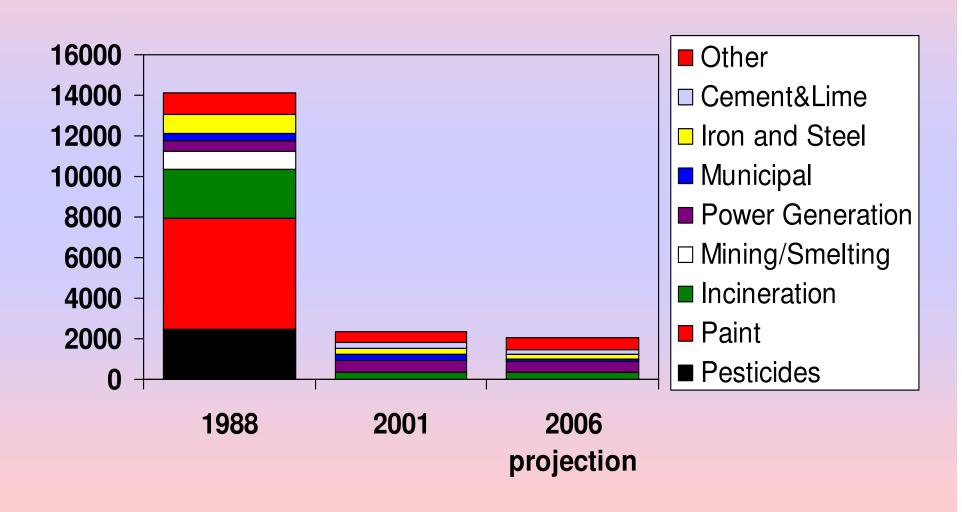
Progress:

Approximately 83% reduction by 2001





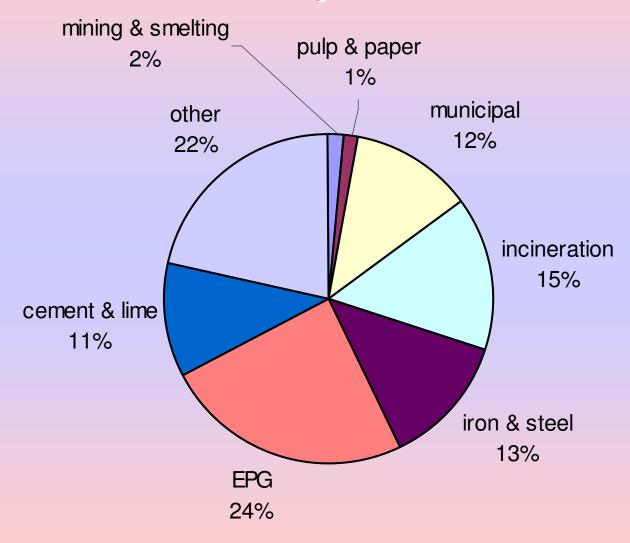
Ontario Mercury Releases (kg)







Sources of Mercury Releases in Ontario







U.S. Mercury Reduction Challenge and Progress

Challenge:

"Achieve by 2006 a 50% reduction in use and air emissions of mercury nationwide"

Baselines:

Emissions: 1990

Use: 1995

Progress (best guess):

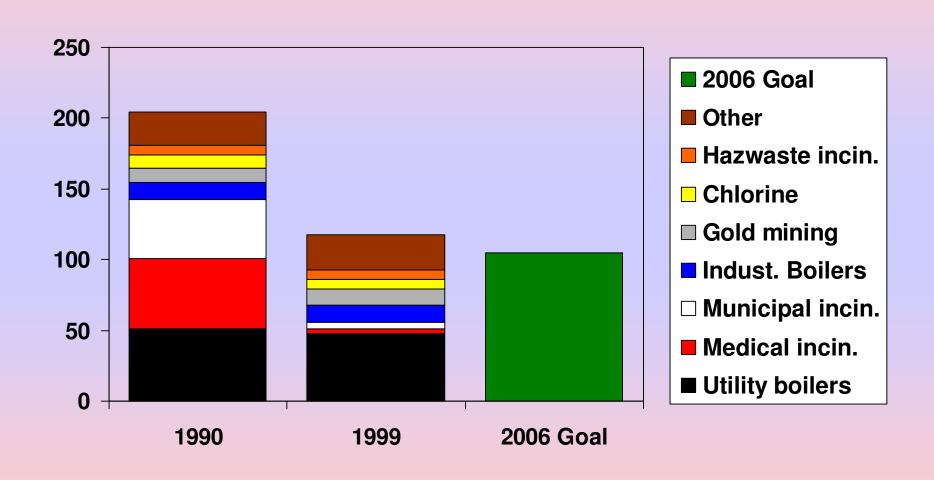
■ Emissions: > 40% reduction

■ Use: > 50% reduction





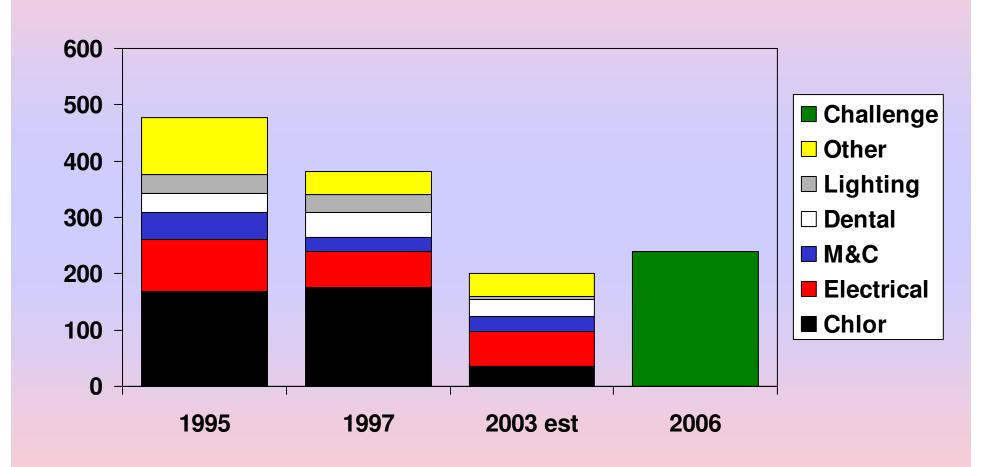
U.S. Mercury Releases (tons)







U.S. Mercury Use (tons)







Significant Activities

- U.S. Utility Regulations Proposed

 Public Comment
 period ends June 29
- Hospitals for Healthy Environment now has 776 partners representing 2,704 facilities
- All existing hospital incinerators in Ontario closed as of December 6, 2003
- Chlorine Institute will present 2004 report in Summer





Significant Activities (continued)

- Progress update on 1998 Voluntary Agreement: NW Indiana Steel Mills (3) with Lake Michigan Forum, EPA Region 5, & Indiana DEM
 - 3700 lbs Hg removed (~80% of total inventory)
- NEMA Announces Reductions in Lighting Industry Mercury Use
- State Mercury Legislation Introduced— MN, WI, MI, IL, OH





Dental Industry

- Workgroup Co-Chairs Report on Options for Provincial State, Local Governments
- ADA Launches Dental Amalgam Initiative
 - Best Management Practices for Amalgam Waste
- Canadian Dental Association working towards target of 95% reduction by 2005
- Ontario Dentists required to have amalgam separator (effective Nov 2003)
- Ontario Dental Waste Management Working Group distributing BMP flowcharts to all dentists in Ontario
- Milwaukee develops amalgam separator requirements
- GLNPO Grants for dental mercury efforts by Navy, Wisconsin Extension, Delta Institute, Erie County





Mercury in Scrap

- No mercury switches in 2003 model year autos
- Pilot projects- New York, Wisconsin, Michigan, Minnesota, Indiana
 - Ontario "Switch-out" program expansion to other provinces
- Inclusion of "clean scrap" requirement in iron and steel foundry emissions standards
- Regulation for Electric Arc Furnaces under development



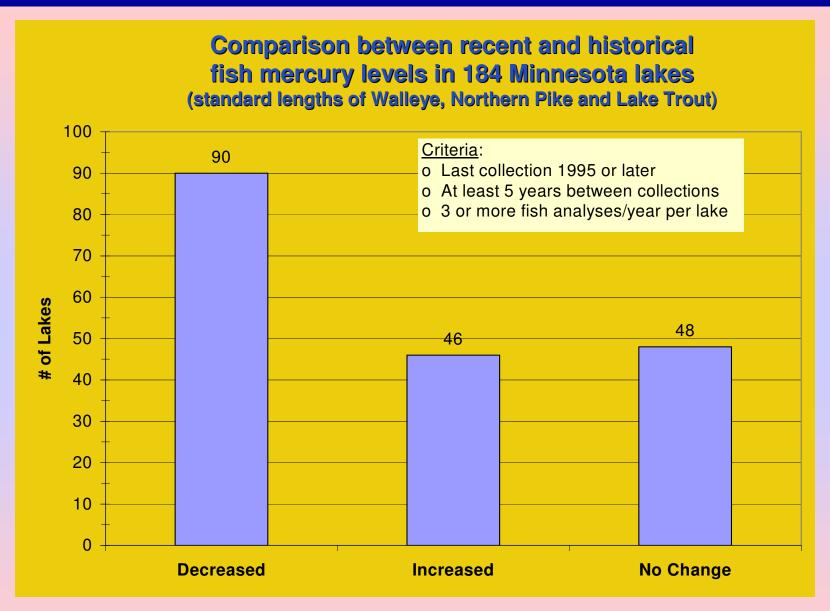


Global Mercury Reduction Efforts

- United Nations Environment Program Mercury
 "Awareness Raising" Workshops
- Bangkok (April); Pretoria (June)
- 6 additional workshops through early 2005
- Participation by EPA, Health Canada, CEC
- Governing Council to decide additional actions in 2005
- Chlorine Institute/EPA participation in workshops in Brazil and India



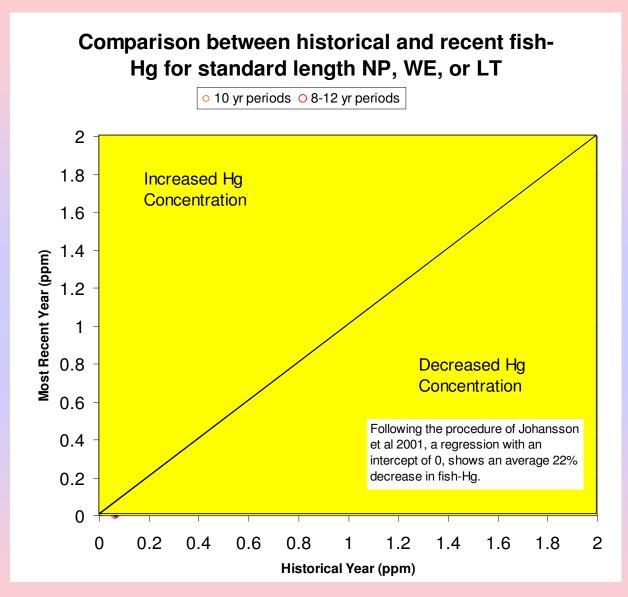




From Minnesota Pollution Control Agency







From Minnesota Pollution Control Agency



